



IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re application of: James, Kenneth D., et al.

Group Art Unit: 1642

Serial Number: 10/723,933

Confirmation No.: 9468

Filed: November 26, 2003

For: NATRIURETIC COMPOUNDS, CONJUGATES, AND USES THEREOF

Commissioner for Patents PO Box 1450 Alexandria, VA 22313-1450

FOURTH SUPPLEMENTAL INFORMATION DISCLOSURE STATEMENT UNDER 37 C.F.R. § 1.56 AND 37 C.F.R. § 1.97

It is respectfully requested that the document listed on the attached Forms PTO/SB/08a and PTO/SB/08b be considered by the Patent and Trademark Office in the above-referenced application and made of record therein. Full text copies of the relevant foreign documents, publications and journal articles are enclosed. This information disclosure statement submitted herewith is being filed within three months of the filing date of the application or date of entry into the national stage of an international application or before the mailing date of a first Office action on the merits, whichever event occurs last.

Respectfully submitted,

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Date

CERTIFICATE OF MAILING

I hereby certify that this correspondence is being deposited with the US Postal Service as first class mail on September 7, 2005, in an envelope addressed to Commissioner of Patents, PO Box 1450, Alexandria, VA 22313-1450

Katrina Holland

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PTO/SB/08a (08-03) Approved for use through 07/31/2006. OMB 0651-0031

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STATEMENT BY APPLICANT

Application Number 10/723,933
Filing Date November 26, 2003
First Named Inventor James, Kenneth D. Ph.D.
Art Unit 1642
Examiner Name Nichols, Christopher J.
Attorney Docket Number 014811-205.108

			U.S. PATENT I	DOCUMENTS	
Examiner Initials'	Cite No.1	Document Number Number-Kind Code ² (if known)	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
	D1	US- 4,044,196	08/23/1977	Hüber et al.	
	D2	US- 4,179,337	12/18/1979	Davis et al.	
	D3	US- 4,526,938	07/02/1985	Churchill et al.	
	D4	US- 5,013,556	05/07/1991	Woodle et al.	
	D5	US- 5,108,568	04/28/1992	Van Alstine	
	D6	US- 5,773,581	06/30/1998	Camble et al.	
	D7	US- 6,506,730	01/14/2003	Lee et al.	
	D8	US- 2003/0060606 A1	03/27/2003	Ekwuribe et al.	
	D9	US- 2003/0069170 A1	04/10/2003	Soltero et al.	
	D10	US- 2003/0153488 A1	08/14/2003	May et al.	
		US-			

	FOREIGN PATENT DOCUMENTS								
Examiner Initials'	Cite No.1	Foreign Patent Document Country Code ³ -Number ⁴ -Kind Code ⁵ (if known)	Publication Date	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear	T⁵			
	D11	EP 0 092 918	11/02/1983	Imperial Chemical Industries PLC					
	D12	EP 0 354 855	02/14/1990	Terumo Kabushiki Kaisha					
	D13	EP 0 381 070	08/08/1990	Farmhispania S.A.					
	D14	WO 00/43034	07/27/2000	Eli Lilly and Company					
	D15	WO 02/098232 A1	12/12/2002	Nobex Corporation					
	D16	WO 03/022996 A2	03/20/2003	Nobex Corporation					
	D17	WO 03/022208 A2	03/20/2003	Nobex Corporation					
	D18	WO 03/022210 A2	03/20/2003	Nobex Corporation					

Examiner	Date	
Signature	Considered	

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				Complete if Known			
Substitute for form 1449B/PTO				Application Number	10/723,933		
	FOURTH SUPPLEM	FNT	ΔΙ	Filing Date	November 26, 2003		
INFORMATION DISCLOSURE STATEMENT BY APPLICANT				First Named Inventor	James, Kenneth D. Ph.D.		
				Art Unit	1642		
				Examiner Name	Nichols, Christopher J.		
	(use as many sheets as ne	cessa	(Y)				
Sheet	2	of	2	Attorney Docket Number	014811-205.108		

		NON PATENT LITERATURE DOCUMENTS	
Examiner Initials*	Cite No. ¹	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T²
	D19	KANG CHOON LEE, et al.; Isolation, Characterization, and Stability of Positional Isomers of Mono-PEGylated Salmon Calcitonins; Pharmaceutical Research; 1999; Vol. 16, No. 6, pp. 813-818; Plenum Publishing Corporation	
	D20	HAESHIN LEE, et al.; Preparation and Characterization of Mono-PEGylated Epidermal Growth Factor: Evaluation of <i>in Vitro</i> Biologic Activity; Pharmaceutical Research; 2002; Vol. 19, No. 6, pp. 845-851; Plenum Publishing Corporation	
	D21	ANDREA LUCKE, et al.; Biodegradable poly(D,L-lactic acid)-poly(ethylene glycol)-monomethyl ether diblock copolymers: structures and surface properties relevant to their use as biomaterials; Biomaterials; 2000; 21, pp. 2361-2370; Elsevier Science Ltd.	
	D22	JONG-HOON LEE, et al.; Polymeric nanoparticle composed of fatty acids and poly(ethylene glycol) as a drug carrier; International Journal of Pharmaceutics; 2003; 251, pp. 23-32; Elsevier Science B.V.	
	D23	WEI WANG, et al.; AlbuBNP, a Recombinant B-Type Natriuretic Peptide and Human Serum Albumin Fusion Hormone, as a Long-Term Therapy of Congestive Heart Failure; Pharmaceutical Research; 2004; Vol. 21, No. 11, pp. 2105-2111; Springer Science+Business Media, Inc.	
	D24	SAMUEL ZALIPSKY; Synthesis of an End-Group Functionalized Polyethylene Glycol-Lipid Conjugate for Preparation of Polymer-Grafter Liposomes; Bioconjugate Chemistry; 1993; 4, pp. 296-299; American Chemical Society	
	D25	MUNEAKI HASHIMOTO, et al.; Synthesis of Palmitoyl Derivatives of Insulin and Their Biological Activities; Pharmaceutical Research; 1989; Vol. 6, No. 2, pp. 171-176; Plenum Publishing Corporation	
	D26	MARY L. NUCCI, et al.; The therapeutic value of poly(ethylene glycol)-modified proteins; Advanced Drug Delivery Reviews; 1991; 6, pp. 133-151; Elsevier	
	D27	MURRAY SAFFRAN, et al.; A New Approach to the Oral Administration of Insulin and Other Peptide Drugs; Science; 1986; Vol. 233, pp. 1081-1084	

Examiner		Date	
Signature		Considered	

^{*}EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

^{&#}x27;Applicant's unique citation designation number (optional). ²Applicant is to place a check mark here if English language Translation is attached.

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